Claims

Sub C1

1. Absorbent structure in an absorbent article such as a diaper, pant diaper, incontinence guard, sanitary napkin, wound dressing, bed protection etc. and comprising a compressed foam material (1) which expands upon wetting,
c h a r a c t e r i z e d i n
that the foam material (1) comprises at least two integrated layers (2,3,4) having different mean pore sizes.

2. Absorbent structure as claimed in claim 1,
c h a r a c t e r i z e d i n
that the foam material (1) contains superabsorbent material.

3. Absorbent structure as claimed in claim 2,
c h a r a c t e r i z e d i n
that the different layers (2,3,4) contain different amounts of superabsorbent materials.

4. Absorbent structure as claimed in claim 3,
c h a r a c t e r i z e d i n
that the layer having the largest mean pore size contains the lowest amount of superabsorbent material and the layer having the smallest mean pore size contains the highest amount of superabsorbent material.

a 5. Absorbent structure as claimed in claim 1 ~~any of the preceding claims~~,
c h a r a c t e r i z e d i n
that the foam material is regenerated cellulose, such as viscose.

a 6. Absorbent structure as claimed in claim 1 ~~any of the preceding claims~~,
c h a r a c t e r i z e d i n
that the foam material in the different layers may be of different polymers.

7. Method of producing an absorbent structure in an absorbent article such as a diaper, pant diaper, incontinence guard, sanitary napkin, wound dressing, bed protection etc.

characterized in

separately forming at least two different foam materials having different mean pore sizes and applying the foam materials on top of each other while still not dry, after which the combined material layers are dried and compressed.

8. Method as claimed in claim 7,
characterized in
that salt crystals of different mean particle sizes are used when producing the respective foam material layers in order to provide different mean pore sizes in the respective layers.

9. Method as claimed in claim 7,
characterized in
that different types of foaming agents are used when producing the respective foam material layers in order to provide different mean pore sizes in the respective layers.

10. Method as claimed in claim 7,
characterized in
that when producing the respective foam material layers the same or different foaming agents are used and that the foaming process is effected in such a way, e g by heating the different layers to different temperatures during foaming, so that different mean pore sizes are obtained in the different layers.

11. Absorbent article such as a diaper, a pant diaper, an incontinence guard, a sanitary napkin, a wound dressing, a bed protection etc. of the kind containing a liquid permeable topsheet (5), a liquid impermeable backsheet (6) and an absorbent structure applied therebetween,
characterized in
that it contains an absorbent structure (1) as claimed in ~~any of claims 1-6~~ claim 1.

Sub C1

Add C2

Add C1